

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

### NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

CGI Windows & Doors 10100 NW 25<sup>th</sup> Street Miami, FL 33172

Score:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "238 Designer" Aluminum Fixed Window - L.M.I.

**APPROVAL DOCUMENT:** Drawing No. **W01-83**, titled "Series-238 Designer Fixed Window", sheets 1 through 8 of 8, dated 12/27/01, with revision E dated 08/13/14, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

#### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA# 13-0606.07 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.

MIAMI-DADE COUNTY
APPROVED

12/18/14

NOA No. 14-0903.07 Expiration Date: October 20, 2018 Approval Date: December 24, 2014

Page 1

#### NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### A. DRAWINGS

- 1. Manufacturer's die drawings and sections.
- 2. Drawing No. W01-83, titled "Series-238 Designer Fixed Window", sheets 1 through 8 of 8, dated 12/27/01, with revision E dated 08/13/14, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

#### B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
  - 5) Large Missile Impact Test per FBC, TAS 201-94
  - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of aluminum fixed windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. HTL-0080-0105-08, dated 01/08/08, signed and sealed by Vinu J. Abraham, P.E.

(Submitted under NOA No. 09-0303.01)

- 2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of an aluminum fixed window, prepared by Hurricane Test Laboratory, Inc., Test Reports No.

HTL-0080-0303-96 and HTL-0080-0502-97, dated 03/05/96, 05/01/97 and 05/02/97, all signed and sealed by Timothy S. Marshall, P.E.

(Submitted under NOA No 96-0603.07)

- 3. Test reports on: 1) Large Missile Impact Test per SFBC, PA 201–94,
  - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of aluminum casement, project-out and fixed windows, prepared by American Test Lab of South Florida, Inc., Test Report No. ATLSF-1209.01-94, dated 12/09/94 to 12/14/94, signed and sealed by Gerard B. Sullivan, P.E.

(Submitted under NOA No. 96-0603.07)

Manuel Perez, P.E. Product Control Examiner NOA No. 14-0903.07

Expiration Date: October 20, 2018 Approval Date: December 24, 2014

#### **CGI Windows & Doors**

#### **NOTICE OF ACCEPTANCE:** EVIDENCE SUBMITTED

#### B. TESTS (CONTINUED)

4. Test reports on: 1) Large Missile Impact Test, per SFBC, PA 202-94

2) Cyclic Wind Pressure Loading, per SFBC, PA 202-94

along with marked-up drawings and installation diagram of an aluminum project – out window, prepared by Fenestration Testing Laboratory, Inc. Report No.

FTL-1018, dated 09/26/94, signed and sealed by Yamil Kurí, P.E.

(Submitted under NOA No. 96-0603.07)

#### B. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with FBC-5<sup>th</sup> Edition (2014), dated 07/16/14, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
- 2. Glazing complies with ASTM E1300–09

#### D. QUALITY ASSURANCE

1. Miami–Dade Department of Regulatory and Economic Resources (RER).

#### E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 14-0423.17 issued to Eastman Chemical Company (MA) for their "Saflex Clear and Color Glass Interlayers" dated 0619/14, expiring on 05/21/16.

#### F. STATEMENTS

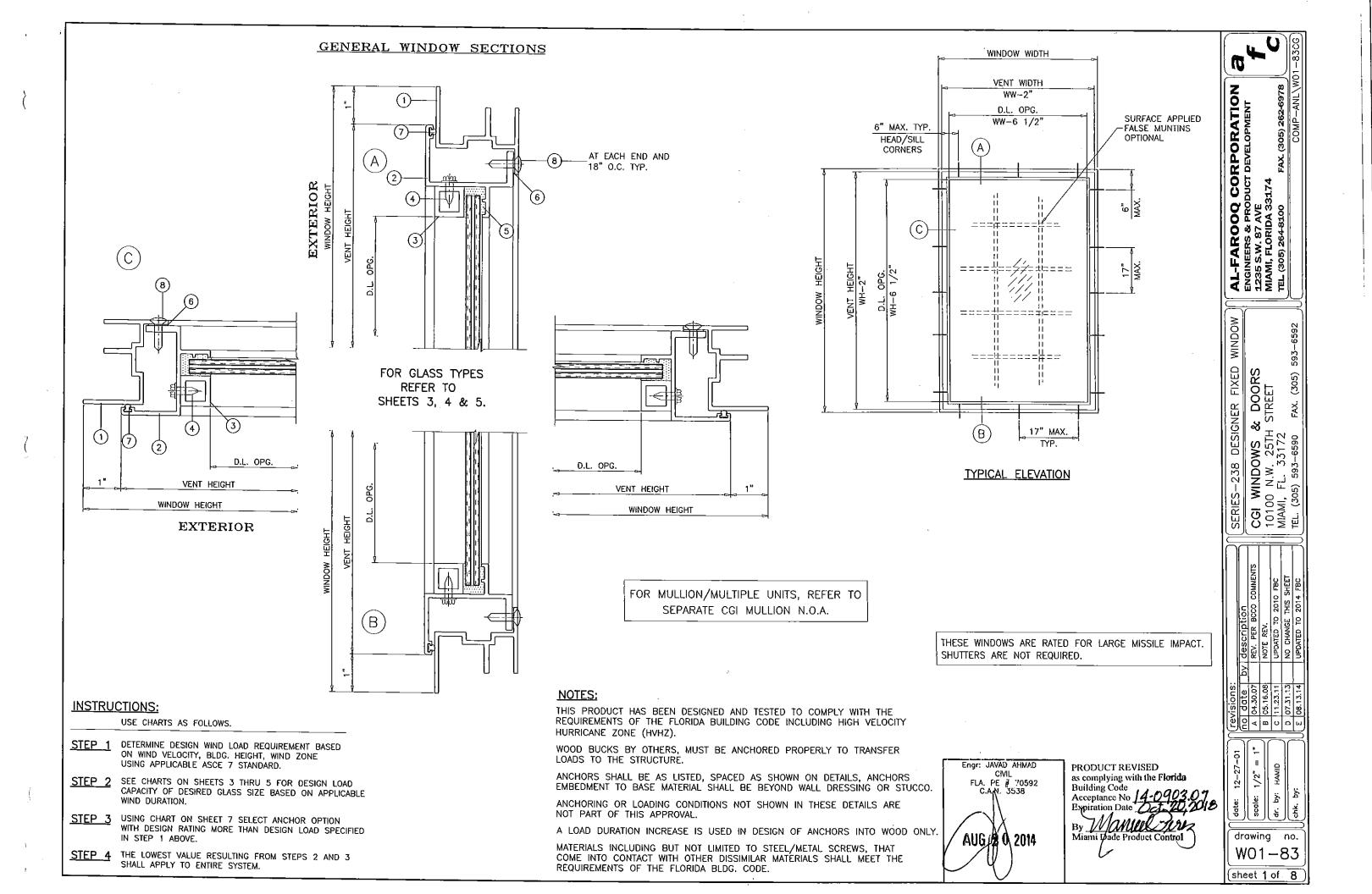
- 1. Statement letter of conformance, complying with FBC-5<sup>th</sup> Edition (2014), and of no financial interest, dated August 6, 2014, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
- 2. Laboratory compliance letters for Test Report No. HTL-0080-0105-08, issued by Hurricane Test Laboratory, Inc., dated 01/08/08, signed and sealed by Vinu J. Abraham, P.E. (Submitted under NOA No. 09-0303.01)
- 3. Laboratory compliance letters for Test Reports No.'s HTL-0080-0303-96 and HTL-0080-0502-97, issued by Hurricane Test Laboratory, Inc., dated 03/05/96, 05/01/97 and 05/02/97, all signed and sealed by Timothy S. Marshall, P.E. (Submitted under NOA No. 96-0603.07)
- 4. Laboratory compliance letters for Test Report No. ATLSF-1209.01-94, issued by American Test Lab of South Florida, Inc., dated 12/09/94 to 12/14/94, signed and sealed by Gerard B. Sullivan, P.E. (Submitted under NOA No. 96-0603.07)

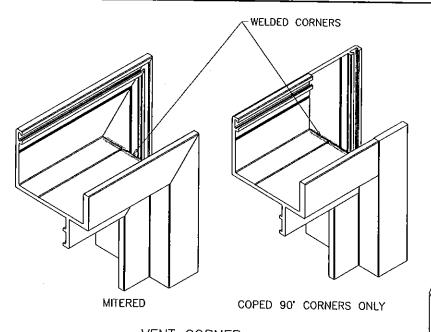
#### G. OTHERS

1. Notice of Acceptance No. 13-0606.07, issued to CGI Windows & Doors for their "Series-238 Designer" Aluminum Fixed Window – L.M.I.", approved on 08/15/13 and expiring on 10/20/18.

Manuel Perez, P.E. Product Control Examiner NOA No. 14-0903.07

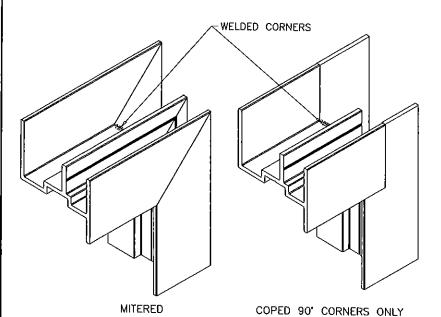
Expiration Date: October 20, 2018 Approval Date: December 24, 2014



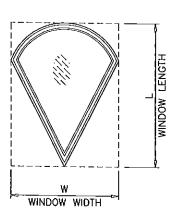


# VENT CORNER

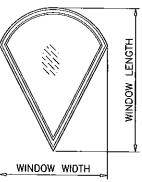
ALL FRAME AND VENT CORNERS TO BE SEALED WITH GE SILPRUF OR EQUIV.



FRAME CORNER



	Т				
ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	CGI-386	4	FRAME	6063-T6	INDALEX OR EQUIV.
2	CGI-387	4	VENT	6063-T6	INDALEX OR EQUIV.
. 2A	CGI-387IG	4	VENT (INSUL GLASS)	6063-T6	INDALEX OR EQUIV.
3	CGI-	4	GLAZING BEAD	6063-T5	INDALEX OR EQUIV.
4		AS REQD.	GLAZING BEAD SCREWS @ 6" FROM ENDS & 20" O.C. MAX.		#12 X 5/8" SMS
5	-	_	GLAZING COMPOUND	SILICONE	GE-1000 ( NON-IMPACT )
5A	<u> </u>		GLAZING COMPOUND	SILICONE	GE-1200 ( IMPACT )
6		4	1/2" X .090" SINGLE FACED GLAZING TAPE	FOAM	
7_	Q200 X190	AS REQD.	VENT WEATHERSTRIPPING		SCHLEGEL Q-LON
. 8		AS REQD.	VENT SCREWS @ 17" O.C. TYP.		#10 X 1" SS SMS
9		2/ CORNER	FRAME AND VENT ASSEMBLY SCREWS	+ -	#10 X 1-1/4" SS SMS
10		2/ LITE	SETTING BLOCK	EPDM	DUROMETER 80±5 SHORE A



PARTIAL CIRCLE

HTDIW WODIN

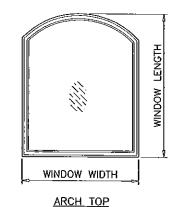
<u>OCTAGON</u>

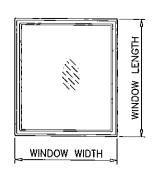
HTDIW WODIN

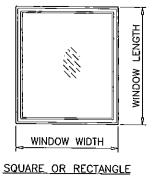
<u>TUMBSTONE</u>

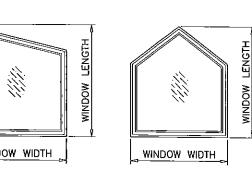
WINDOW WIDTH

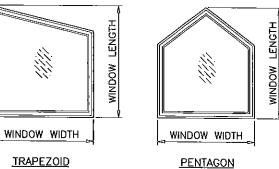
<u>HEXAGON</u>

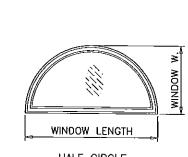


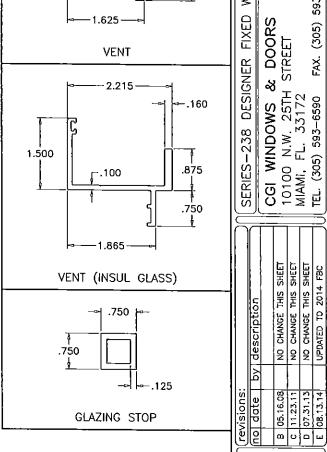












.100 TYP.

1.510

1.500

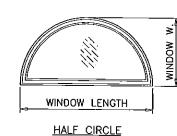
--√.798

FRAME

-2.215-







FLA PE # 70592 C.A.N. 3538

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 14-By Manuel Poses Mram Dade Product Control

drawing no. W01 - 83

sheet 2 of 8

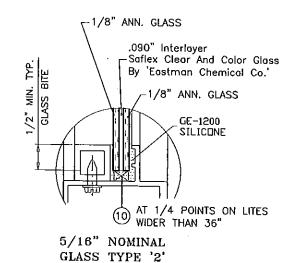
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978

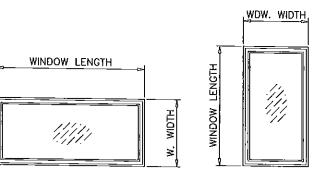
.625

VERIFY LOAD CAPACITY OF WINDOW BY INSCRIBING SHAPE OF WINDOW WITHIN A RECTANGULAR OR SQUARE SHAPE AND USING THOSE DIMENSIONS TO CONSULT CHARTS ON SHEETS 3, 4 & 5 FOR GLASS AND SHEET 7 FOR ANCHORS AS ON SAMPLE ABOVE.

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS						
REFER	TO SHEETS	O SHUTTER 6 AND 7	S REQUIRE	D MIATION D	FTAILS	
	W DIMS.		TYPE '2'		LALE ,3,	
WIDTH	HEIGHT	EXT. (+)	1NT. (~)	EXT. (+)	1NT. (-)	
24"		110.0	180.0	110.0	180.0	
30"		110.0	144.0	110.0	144.0	
36"		110.0	120.0	110.0	120.0	
42"	36"	110.0	120.0	110.0	120.0	
48"		101.4	101.4	110.0	120.0	
54"		84.8	84.8	110.0	120.0	
60"		74.7	74.7	110.0	114.3	
24"		110.0	166.4	110.0	168.0	
30"		110.0	142.5	110.0	144.0	
36"		110.0	120.0	110.0	120.0	
42"	42°	102.9	102.9	102.9	102.9	
48"		85.0	85.0	102.9	102.9	
54"		75.1	75.1	102.9	102.9	
60"		66.4	66.4	90.0	90.0	
24"		110.0	153.1	110.0	160.0	
30"		110.0	_117.6_	110.0	120.0	
36"		101.4	101.4	110.0	120.0	
42"	48"	85.0	85.0	102.9	102.9	
48"		75.5	75.5	90.0	90.0	
54"		68.4	68.4	90.0	90.0	
60"		63.6	63.6	90.0	90.0	
24"		110.0	134.8	110.0	154.3	
30"		99.4	99.4	110.0	120.0	
36"		84.8	84.8	110.0	120.0	
42"	54"	75.1	75.1	102.9	102.9	
48"		68.4	68.4	90.0	90.0	
54"		65.8	65.8	80.0	80.0	
60"		59.0	59.0	80.0	80.0	
24"		110.0	119.4	110.0	120.0	
30" 30"		87.8	87.8	110.0	120.0	
36"	60"	74.7	74.7	110.0	114.3	
42" 48"		66.4	66.4	90.0	90.0	
_		63.6	63.6	90.0	90.0	
24"		59.0	59.0	80.0	80.0	
30°		110.0	112.5	110.0	120.0	
36"	66"	82.1 66.6	82.1	110.0	120.0	
42"	36	58.1	66.6	90.0	90.0	
48"	ł	56.1	58.1	90.0	90.0	
24"		105.4	56.1	90.0	90.0	
30"		74.0	74.0	110.0	120.0	
36"	72"	59.2	74.0	110.0	120.0	
42"	14	51.2	59.2	90.0	90.0	
48"			51.2	90.0	90.0	
		49.8	49.8	83.9	83.9	

PERFORMA	PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS								
REFER	NO SHUTTERS REQUIRED REFER TO SHEETS 6 AND 7 FOR INSTALLATION DETAILS								
WINDO	V DIMS.	GLASS 7	TYPE '2'	GLASS TYPE '3'					
WIDTH	HEIGHT	EXT. (+)	1NT. (-)	EXT. (+)	1NT. (-)				
24"	ļ	97.5	97.5	110.0	120.0				
30"	78"	67.2	67.2	90.0	90.0				
36"		50.8	50.8	90.0	90.0				
42"		46.1	46.1	86.1	86.1				
24"	84"	103.0	103.0	110.0	120.0				
30"		63.0	63.0	90.0	90.0				
36"		47.3	47.3	90.0	90.0				
24"		87.5	87.5	110.0	120.0				
30"	96"	56.3	56.3	90.0	90.0				
36"		41.6	41.6	90.0	90.0				
24"	108"	69.6	69.6	90,0	90.0				
30"	100	53.5	53.5	90.0	90.0				
24"	120"	58.8	58.8	90.0	90.0				

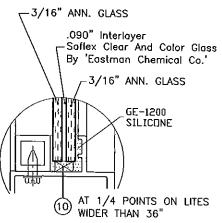




WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.

NOTE: GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS -NO SHUTTERS REQUIRED REFER TO SHEETS 6 AND 7 FOR INSTALLATION DETAILS

TON MUSICE THOM BETALES					
WINDO	W DIMS.	GLASS 7	TYPE '2'	GLASS 7	TYPE '3'
WIDTH	HEIGHT	EXT. (+)	1NT. (-)	EXT. (+)	1NT. (-)
19-1/8"		110.0	210.0	110.0	210.0
26-1/2"	26"	110.0	166.2	110.0	166.2
37"		110.0	166.2	110.0	166.2
53-1/8"		110.0	120.0	110.0	120.0
19-1/8"		110.0	200.6	110.0	200.6
26-1/2"	38-3/8"	110.0	163.0	110.0	163.0
37"		110.0	116.8	110.0	116.8
53-1/8"		81.9	81.9	110.0	112.6
19~1/8"	50-5/8"	110.0	185.7	110.0	185.7
26-1/2"		110.0	125.2	110.0	147.2
37"		92.1	92.1	110.0	116.8
531/8"		66.6	66.6	85.3	85.3
19-1/8"		110.0	177.5	110.0	177.5
26-1/2"	63"	98.1	98.1	110.0	120.0
37"	0.5	68.6	68.6	110.0	110.2
53-1/8"		56.6	56.6	81.3	81.3
19-1/8"		110.0	120.0	110.0	120.0
26-1/2"	74-1/4"	85.2	85.2	110.0	120.0
37"		55.4	55.4	90.0	90.0



7/16" NOMINAL GLASS TYPE '3'

> Engr: JAVAD AHMAD CIVIL FLA. PE # 70592 C.A.N. 3538

drawing no. W01 - 83

sheet 3 of 8

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 2648100 FAX. (305) 262-6978

WINDOW

SERIES-238 DESIGNER FIXED W
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX. (305) 593

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 14:0903.
Expiration Date
By Manuel Labor
Miani Dade Product Control

#### PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS NO SHUTTERS REQUIRED REFER TO SHEETS 6 AND 7 FOR INSTALLATION DETAILS

195.8

156.6

130.5

120.0

120.0

120.0

120.0

193.6

156.6

120.0

111.9

111.9

111.9

90.0

184.4

120.0

120.0

111.9

97.9

42"

48"

54"

57"

60"

63"

66"

69"

72"

75"

78"

81"

84"

87"

24"

30"

36"

42"

48"

51"

54"

57"

60"

63"

66"

69°

72"

75"

78"

81"

R4"

87"

24"

30"

36"

42"

45°

48"

51"

54"

57"

60"

63"

66"

69"

72"

75"

78"

81"

66"

110.0

110.0

110.0

110.0

110.0

110.0

110.0

110.0

110.0

96.9

96.9

96.9

90.0

110.0

110.0

110.0

96.9

84.8

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS NO SHUTTERS REQUIRED REFER TO SHEETS 6 AND 7 FOR INSTALLATION DETAILS

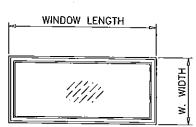
PERFORMANCE VALUES
OF IMPACT RESISTANT WINDOWS
NO SHUTTERS REQUIRED
REFER TO SHEETS 6 AND 7
FOR INSTALLATION DETAILS

	PERFORMANCE VALUES
0F	IMPACT RESISTANT WINDOWS
	NO SHUTTERS REQUIRED
	REFER TO SHEETS 6 AND 7
	FOR INSTALLATION DETAILS

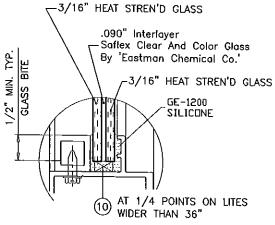
FOR INSTALLATION DETAILS							
WINDOY	V DIMS.	GLASS 7	TYPE '6'				
WIDTH	WIDTH HEIGHT		1NT. (-)				
24"		70.0	70.0				
30"		70.0	70.0				
33"		70.0	70.0				
36"	170"	70.0	70.0				
39"	132"	50.0	50.0				
42"		50.0	50.0				
45"		50.0	50.0				
48"		50.0	50.0				
24"		70.0	70.0				
30"		70.0	70.0				
33"		70.0	70.0				
36"	144"	50.0	50.0				
39"		50.0	50.0				
42"		50.0	50.0				
45"		50.0	50.0				
24"		70.0	70.0				
30"		70.0	70.0				
33"	156"	50.0	50.0				
36"		50.0	50.0				
39"		50.0	50.0				

PERFORMANCE VALUES IMPACT RESISTANT WINDOWS NO SHUTTERS REQUIRED REFER TO SHEETS 5 AND 6 FOR INSTALLATION DETAILS

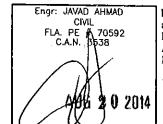
TON INDIALEMION DETAILS						
WINDOY	Y DIMS.	GLASS 7	TYPE '6'			
WIDTH	HEIGHT	EXT. (+)	1NT. (~)			
19-1/8"		110.0	210.0			
26-1/2"	007	110.0	180.7			
37"	26"	110.0	180.7			
53~1/8"		110.0	120.0			
19-1/8"		110.0	210.0			
26-1/2"	38-3/8"	110.0	177.3			
37"	30-3/6	110.0	120.0			
53-1/8"		110.0	120.0			
19~1/8"		110.0	210.0			
26-1/2°	50-5/8"	110.0	169.7			
37"	30-3/8	110.0	120.0			
53-1/8"		85.3	85.3			
19-1/8"		110.0	204.6			
26-1/2"	63°	110.0	120.0			
37"	03	110.0	120.0			
53-1/8"		81.3	81.3			
19-1/8"		110.0	120.0			
26-1/2"	74-1/4"	110.0	120.0			
37"	14-1/4	90.0	90.0			
53-1/8"	<u> </u>	70.0	70.0			



WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN



7/16" NOMINAL GLASS TYPE '6'



PRODUCT REVISED as complying with the Florida Building Code

Building Code
Acceptance No 14-0903.07
Expiration Date 03.20, 2018
By Wall No.
Miamy Dade Product Control

drawing no. W01 - 83

sheet 4 of

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RPORATION DEVELOPMENT

AL-FAROOQ COR ENGINEERS & PRODUCT DI 1235 S.W. 87 AVE MIAMI, FLORIDA 33174 TEL (305) 264-8100 FA

SOR:

& DO

CGI WINDOWS 10100 N.W. 25TH MIAMI, FL. 33172 TEL. (305) 593-6590

GLASS CAPACITIES ON THIS SHEET ARE

54" 90.0 90.0 60" 90.0 90.0 24" 110.0 177.8 30" 110.0 120.0 36" 110.0 120.0 42" 96.9 54" 111.9 48" 90.0 90.0 0.08 80.0 60" 0.08 0.08 24" 110.0 120.0 30" 110.0 120.0 36" 110.0 120.0 42' 90.0 90.0 48 90.0 90.0 54" 0.08 80.0 60' 70.0 70.0 60" 70.0 63" 70.0 66' 70.0 70.0 69' 70.0 70.0 72" 70.0 70.0 75' 70.0 70.0 78' 70.0 70.0 81 70.0 70.0 84" 50.0 50.0 87" 50.0 50.0

WINDOW DIMS. GLASS TYPE '6' HEIGHT 1NT. (-) WIDTH EXT. (+) 24" 110.0

36"

42"

48"

30"

36"

42"

48"

54"

60"

24"

30"

36"

42"

48"

54"

60"

24"

30"

36"

42"

48"

WINDOW DIMS. GLASS TYPE '6' WIDTH HEIGHT EXT. (+) 1NT. (-)

24" 110.0 120.0 30" 110.0 120.0 36"

65.5

65.5

50.0

50.0

50.0

50.0

50.0

110.0

110.0

90.0

90.0

90.0

70.0

70.0

70.0

70.0

68.6

65.5

50.0

50.0

50.0

50.0

50.0

50.0

50.0

110.0

90.0

90.0

90.0

70.0

70.0

70.0

70.0

70.0

70.0

50.0

50.0

50.0

50.0

50.0

50.0

50.0

78"

72"

50.0

50.0

120.0

120.0

90.0

90.0

90.0

70.0

70.0

70.0

70.0

68.6

65.5

50.0

50.0

50.0

50.0

50.0

50.0

50.0

120.0

90.0

90.0

90.0

70.0

70.0

70.0

70.0

70.0

70.0

50.0

50.0

50.0

50.0

50.0

50.0

50.0

WIDTH 24" 30"

WINDOW DIMS. GLASS TYPE '6' HEIGHT EXT. (+) 1NT. (-) 110.0 90.0 90.0 90.0 36" 90.0 90.0 90.0 42" 70.0 90.0 90.0 45" 70.0 70.0 70.0 48" 70.0 70.0 70.0 51" 70.0 70.0 70.0 54" 70.0 84" 68.6 68.6 57" 70.0 65.5 65,5 60" 50.0

42"

45"

48"

51"

54"

57"

60"

63"

66"

24"

30"

33"

36"

39"

42"

45"

48"

51"

54"

57"

60°

24"

30"

33"

36"

39"

42"

45"

48"

51"

54"

90.0 63" 50.0

70.0 70.0 70.0 70.0 70.0 70.0 50.0 50.0

66" 50.0 50.0

50.0 69"

65.5 65.5 50.0 50.0 72" 50.0 50.0

50.0 50.0 75" 50.0 24"

96"

108

120"

50.0 110.0 120.0 30" 90.0 90.0

36" 90.0 90.0 39"

70.0 70.0 70.0 70.0

70.0

50.0

50.0

50.0

50.0

50.0

90.0

90.0

70.0

70.0

70.0

70.0

70.0

50.0

50.0

50.0

50.0

50.0

90.0

70.0

70.0

70.0

70.0

50.0

50.0

50.0

50.0

50.0

70.0 70.0 70.0 70.0

70.0

50.0

50.0

50.0

50.0

50.0

90.0

90.0

70.0

70.0

70.0

70.0

70.0

50.0

50.0

50.0

50.0

50.0

90.0

70.0

70.0

70.0

70.0

50.0

50.0

50.0

50.0

50.0

120.0

90.0

WDW. WIDTH

BASED ON ASTM E1300-09 (3 SEC. GUSTS)

### PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS NO SHUTTERS REQUIRED

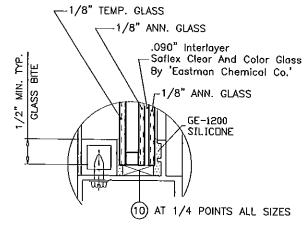
REFER TO SHEETS 6 AND 7 FOR INSTALLATION DETAILS

WINDOW WIOTH 24" 30"	DIMS. HEIGHT		YPE '2A'	GLASS T	YPE '3A'
24"	HEIGHT	CVT (I)			
		EXT. (+)	1NT. ()	EXT. (+)	1NT. (-)
30"		110.0	180.0	110.0	195.8
1 1		110.0	144.0	110.0	156.6
36"		110.0	120.0	110.0	130.5
42"	36"	110.0	120.0	110.0	120.0
48"		107.7	107.7	110.0	120.0
54"		90.1	90.1	110.0	120.0
60"		79.3	79.3	110.0	120.0
24"		110.0	168.0	110.0	193.6
30"		110.0	144.0	110.0	156.6
36"		110.0	120.0	110.0	120.0
42"	42"	102.9	102.9	96.9	111.9
48"		90.3	90.3	96.9	111.9
54"		79.8	79.8	96.9	111.9
60"		70.5	70.5	90.0	90.0
24"		110.0	160.0	110.0	184.4
30"		110.0	120.0	110.0	120.0
36"		107.7	107.7	110.0	120.0
42"	48"	90.3	90.3	96.9	111.9
48"		80.2	80.2	84.8	97.9
54"	l	72.7	72.7	90.0	90.0
60"		67.6	67.6	90.0	90.0
24"		110.0	143.3	110.0	177.8
30"		105.6	105.6	110.0	120.0
36"		90.1	90.1	110.0	120.0
42"	54"	79.8	79.8	96.9	111.9
48"	Į	72.7	72.7	90.0	90.0
54"	1	69.9	69.9	80.0	80.0
60"		62.7	62.7	80.0	80.0
24"		110.0	120.0	110.0	120.0
30"		93.3	93.3	110.0	120.0
36"	60"	79.3	79.3	110.0	120.0
42"	00	70.5	70.5	90.0	90.0
48"		67.6	67.6	90.0	90.0
54"		62.7	62.7	80.0	80.0
24"		110.0	119.5	110.0	120.0
30"		87.2	87.2	110.0	120.0
36"	66"	70.7	70.7	90.0	90.0
42"		61.7	61.7	90.0	90.0
48"		59.6	59.6	90.0	90.0
24"		110.0	111.9	110.0	120.0
30"	į	78.6	78.6	110.0	120.0
36"	72"	62.9	62.9	90.0	90.0
42"		54.4	54.4	90.0	90.0
48"		52.9	52.9	90.0	90.0

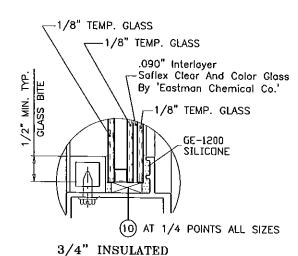
### PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS NO SHUTTERS REQUIRED

REFER TO SHEETS 6 AND 7 FOR INSTALLATION DETAILS

TREFER TO SHEETS 6 AND 7 FOR INSTALLATION DETAILS							
WINDO	W DIMS.	GLASS T	GLASS TYPE '2A'		YPE '3A'		
WIDTH	HEIGHT	EXT. (+)	1NT. (-)	EXT. (+)	1NT. (-)		
24"		103.6	103.6	110.0	120.0		
30"	78"	71.4	71.4	90,0	90.0		
36"	/ "	54.0	54.0	90.0	90.0		
42"		48.9	48.9	90.0	90.0		
24"		109.4	109.4	110.0	120.0		
30"	84"	67.0	67.0	90.0	90.0		
36"		50.2	50.2	90.0	90.0		
24"		92.9	92.9	110.0	120.0		
30"	96"	_59.8	59.8	90.0	90.0		
36"		44.2	44.2	90.0	90.0		
24"	108"	74.0	74.0	90.0	90.0		
30"		56.8	56.8	90.0	90.0		
24"	120"	62.5	62.5	90.0	90.0		



3/4" INSULATED GLASS TYPE '2A'



AIR SPACE CONSISTING OF: SPACER: METAL SPACER AROUND THE PERIMETER OF THE GLASS.

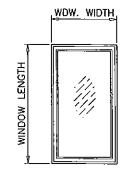
GLASS TYPE '3A'

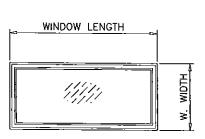
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS)

## PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS NO SHUTTERS REQUIRED

REFER TO SHEETS 6 AND 7 FOR INSTALLATION DETAILS

WINDOW DIMS.		GLASS TYPE '2A'		GLASS TYPE '3A'	
WIDTH	HEIGHT	EXT. (+)	1NT. (-)	EXT. (+)	1NT. (-)
19-1/8"	!!	110.0	210.0	110.0	210.0
26-1/2"		110.0	166.2	110.0	180.7
37"	26"	110.0	166.2	110.0	180.7
53-1/8"		110.0	120.0	110.0	120.0
19-1/8"		110.0	200.6	110.0	210.0
26~1/2"	38-3/8"	110.0	163.0	110.0	177.3
37"		110.0	116.8	110.0	120.0
53-1/8"		87.0	87.0	110.0	120.0
19-1/8"	-	110.0	185.7	110.0	210.0
26-1/2"	50-5/8"	110.0	133.0	110.0	169.7
37"	00 3/0	97.9	97.9	110.0	120.0
53-1/8"		70.8	70.8	85.3	85.3
19-1/8"		110.0	177.5	110.0	204.6
26-1/2"	63"	104.3	104.3	110.0	120.0
37"	03	72.9	72.9	110.0	120.0
53-1/8"		60.1	60.1	81.3	81.3
19-1/8"		110.0	120.0	110.0	120.0
26-1/2"	74-1/4"	90.5	90.5	110.0	120.0
37"		58.8	58.8	90.0	90.0





WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.

Engr: JAVAD AHMAD CIVIL FLA. PE # 70592 C.A.N. 3538

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 14-0903.07
Expiration Date Oct. 20, 2018
By Manuel 189
Miami Dade Product Control

Ę. date: drawing no. W01 - 83sheet 5 of 8

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978

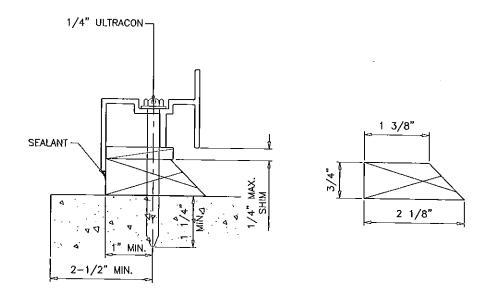
WINDOW

DESIGNER FIXED

SERIES—238 DESIGNER FIXED V CCI WINDOWS & DOORS 10100 N.W. 25TH STREET MIAMI, FL. 33172 TEL. (305) 593—6590 FAX. (305) 59

# INSTALLATION CONDITIONS (APPLIES TO ALL FOUR SIDES)

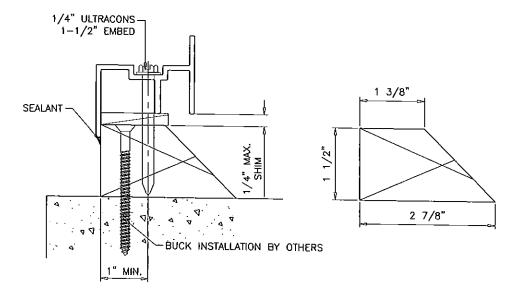
FOR ANCHOR PERFORMANCE VALUES SEE SHEET 6



**INSTALLATION TYPE '1'** 

WOOD BUCK TYPE '1' MATERIAL: PRESSURE TREATED

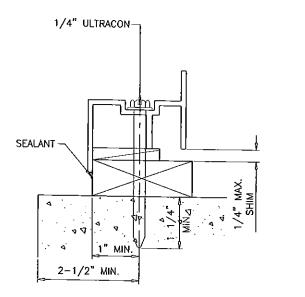
### TYPICAL INSTALLATION DETAIL ON ALL FOUR SIDES/USING WOOD



**INSTALLATION TYPE '3'** 

WOOD BUCK TYPE '3' MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL ON ALL FOUR SIDES/USING WOOD

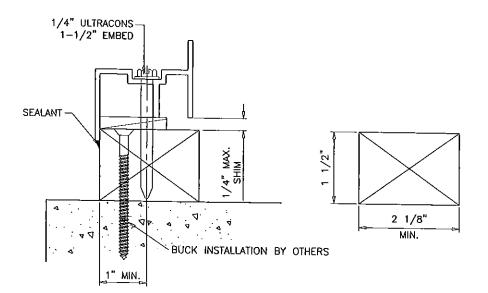


INSTALLATION TYPE '2'

WOOD BUCK TYPE '2' MATERIAL: PRESSURE TREATED

2 1/8 MIN.

# TYPICAL INSTALLATION DETAIL ON ALL FOUR SIDES/USING WOOD

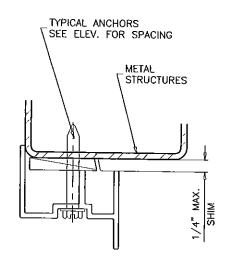


**INSTALLATION TYPE '4'** 

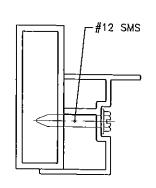
WOOD BUCK TYPE '4' MATERIAL: PRESSURE TREATED

## TYPICAL INSTALLATION DETAIL ON ALL FOUR SIDES/USING WOOD

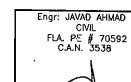
WOOD BUCKS NOT BY CGI CORP., MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



# ATTACHMENT TO **METAL STRUCTURES**



ATTACHMENT TO APPROVED MULLIONS



**A**O 2014

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 14

By Manuel Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174

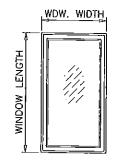
IGNER

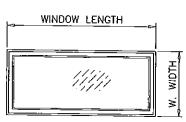
CGI WINDOWS & DOORS 10100 N.W. 25TH STREET MIAMI, FL. 33172 TEL (305) 593-6590 FAX. (305) 59

drawing no. W01 - 83

sheet 6 of 8

OF INSTALLATION ACKNOWNS SERVER TO SERVER SERVER TO SERVER SERVER TO SERVER A FOR SERVER SERVER TO SERVER A FOR SERVER SERVER TO SERVER SERVER TO SERVER SERVER TO SERVER SERV	. [	PE	RFORMAN	CE VALUES	) DE	DEADVAN	TE VILLEO	1					
Refer to Sett a from Gerhals	ŀ	OF IN	<b>ISTALLATI</b>	ON ANCHORS	PERFORMANCE VALUES OF INSTALLATION ANCHORS			II OF IN	RFORMAN( JSTAII ATI	CE VALUES	PERFORMANCE VALUES		
WINDOW DURS.   WIND		REFER	TO SHEET	6 FOR DETAILS									
No.	- 1	WINDO	W DIMS.	EXT. (+)	WINDO	W DIMS.	EVT (1)	: <del></del>		Γ — —	1		6 FOR DETAILS
24" 2100 24" 2100 30" 2100 30" 2100 30" 2100 30" 2100 30" 3105.2 30" 30" 30" 30" 30" 30" 30" 30" 30" 30"		WIDTH	HEIGHT		W≀DTH	HEIGHT					ı		
30°   210.0   30°   210.0   30°   210.0   30°   210.0   30°   210.0   30°   210.0   30°   210.0   30°   210.0   30°   210.0   30°		24"	[	210.0	24"			1	T TIEIGHT		<b>1 ├───</b> ─	HEIGHT	<del></del>
210.0   48"   220.0   48"   220.0   48"   156.1   156.1   156.2   156.3   166.5   16	ı	30"		210.0	30"		210.0	11			11		
42°   210.0   48°   200.0   48°   195.1   195.5   54°   195.5   19	ı	36"		210.0	36"		210.0				11	]	
48°   210.0   48°   200.0   48°   196.5   60°   190.5	ŀ	42"		210.0	42"		207.8	1 1			11	1007	
Section   1905				210.0	48°	54"	200.0	1 1	<b>-</b> -		11	108	
60				210.0	54"		197.5	54"		<del></del>	1 }		
69' 206.3 68' 192.6 63' 148.1 63' 72' 148.1 63' 72' 192.6 63' 192.6 63' 192.6 63' 192.6 63' 192.6 63' 192.6 63' 192.6 63' 192.5 63' 192.6 63' 192.	- 1	1 1		190.5	60"		161.6	60°		<del></del>	1		
66' 1961 98' 1961 98' 1967 1968 98' 1709 88' 1709 1969 1969 1969 1969 1969 1969 1969 19			36"	177.8	63"		148.1	63"		<del> </del>	11		<del></del>
198.7   198.7   69	ı			<del></del>			170.9	66"	/2	139.9	1 — —		
1852   75°   176.4   75°   138.9   75°   190.2   176.5   130.5   190.2   190.2   155.5   181°   190.5   11°   181°   181°   180.5   11°   18	- 1		'				158.7	69"		139,1	i I		
75	Į				1		148.1	72"		138.9	l I	120"	
181		l			1	}	138.9	75"		128.2			<del> </del>
190.3   91   146.1   81   133.3   34   113.3   149.1   149.4   149.1   149.1   149.1   149.1   149.1   149.1   149.1   149.1   159.3   87   113.3   159.1   149.1   149.1   159.3   159.4   159.3   159.4   159.3   159.4   159.3   159.4   159.3   159.4   159.3   159.4   159.3   159.4   159.3   159.4   159.3   159.4	- 1			<del></del>	· -		130.7	78"		119.0	48"		
87" 173.9 87" 133.1 87" 125.0 127.0 90" 111.1 36" 132" 157.9 158.6 120.0 24" 210.0 36" 120.0 36"	ļ						148.1	81"		133,3	54"		
17.5   90°   133°   97°   133°   97°   117.6   30°   134°   135°   136.6   136.7   136°   132°   137.9   136.5   136.5   136.7   136.5   136							140.4	84"		125.0	24"		
24	l.				1		133 7	87"		117.6	30"		
2100   30°   2100   30°   30	1			<del></del>		· 	127.0	90"		111.1	36⁵	132"	
190.5   210.0   36°   210.0   36°   190.5   42°   125.0   190.5   42°   125.0   190.5   42°   125.0   190.5   42°   125.0   190.5   42°   125.0   190.5   42°   125.0   190.5   42°   125.0   190.5   42°   125.0   190.5   42°   125.0   190.5   42°   125.0   180.0   180.0   60°   180.0   60°   180.0   66°	-			·	1			24"		210.0	42"	144"	139.0
1903   36   1904   36   1904   36   1904   36   1904   36   1904   36   1904   36   1904   36   1904   36   1904   36   1904   36   1904   37   36   37   37   37   37   38   37   38   38		ı i		<del>-</del> -	1			30"		190.5	48"		125.0
1.5		I			1			36"		166.7	24"		204.5
14.9   14.9	-	1						l l		150.4	30"		167.4
175.8								1		138.9	36"		142.9
63" 42" 163.3 63" 60" 165.5 66" 60" 165.5 66" 60" 165.5 66" 60" 160.0 66" 178.6 66" 178.6 66" 170.2 208.3 30" 156" 170.2 208.3 30" 156" 170.2 208.3 30" 156" 170.2 208.3 30" 156" 170.2 208.3 30" 156" 170.2 208.3 30" 156" 170.2 208.3 30" 156" 170.2 208.3 30" 156" 170.2 208.3 20										130,7	42"		125.4
66" 42" 190.5 66" 160.0 66" 160.0 66" 178.6 66" 178.6 66" 178.6 66" 180.1 178.6 66" 180.1 172.1 179.9 190" 190.5 150.0 1	- [									125.0	48"		112.5
175.6   66	- 1	1	42"			60°			78°		24"		208.3
168.1   72"   168.1   72"   142.9   72"   119.0   42"   127.0     158.7   75"   133.3   75"   118.5     168.1   171.4   81"   141.2   81"   118.3     84"   163.3   84"   133.3   84"   118.3     87"   155.8   87"   122.3   87"   115.4     90"   149.1   90"   120.0   24"   210.0   36"   220.7   210.0     36"   210.0   36"   220.3   42"   163.3   19-1/8"   210.0     42"   210.0   36"   220.3   42"   163.3   19-1/8"   210.0     42"   210.0   42"   190.5   48"   165.3   19-1/8"   210.0     54"   200.0   54"   179.8   66"   165.3   66"   165.3   66"   165.3   66"   165.3   72"   156.3   72"   156.3   72"   156.3   72"   156.3   72"   156.3   72"   156.3   72"   156.3   72"   157.9   81"   157.9   81"   157.9   81"   157.9   81"   157.9   81"   157.9   81"   157.9   90"   135.4   90"   114.8   96"   150.0   35-1/8"   210.0   35-1/8"   210.0     66"   66"   142.9   75"   123.9   75"   123.9   19-1/8"   210.0   35-1/8"   21								1 1			30"	156"	170.2
158.7   75"   158.7   75"   133.3   75"   119.5   78"   127.0   128.3   75"   119.5   78"   118.3   75"   118.3   11	H										36"		144.9
78"   150.4   78"   125.0   78"   118.3   119.1/8"   119.1/8"   110.0   119.1/8"   110.0   110		75"			1		•				42"	<u>                                      </u>	127.0
81"		78"			1								
84"   163.3   84"   133.5   84"   133.5   84"   118.3   118.3     PERFORMANCE VALUES OF INSTALLATION ANCHORS REFER TO SHEET 6 FOR DEFINIS ANCHORS REFER TO SH		81"			1 :								
155.8   87"   126.3   87"   116.5   90"   120.0   24"   210.0   30"   220.0   30"   210.0   36"   210.0   26-1/2"   210.0   26-1		84"			1								
90°   149.1   90°   120.0   24°   210.0   30°   224°   210.0   30°   220.0   30°   210.0   30°   210.0   36°   220.0   37°   220.0   37°   220.0   37°   220.0   37°   220.0   37°   220.0   37°   220.0   37°   220.0   38°   3		87"			1			I			PERFORMANCE VALUES		
24"   210.0   24"   210.0   30"   30"   30"   30"   36"   42"   181.8   181.		90"		149.1							OF IN	NSTALLATI(	ON ANCHORS
30"   210.0   30"   210.0   36"   210.0   36"   210.0   36"   42"   210.0   48"   210.0   48"   210.0   60"   166.7   60"   166.7   66"   66"   156.3   72"   159.9   75"   121.2   81"   157.9   81"   157.9   81"   136.4   84"   128.3   84"   128.3   84"   142.8   84"   150.0   84"   136.4   84"   136.4   84"   136.4   84"   136.4   84"   136.4   84"   136.3   157.8   136.4   84"   136.4   84"   159.0   136.4   84"   125.0   53-1/8"   210.0   174.5   129.0   90"   114.8   159.0   106.3   37"   26-1/2"   26"   210.0   26"		24"		210.0	24"						1 <del></del>		
36"   210.0   36"   208.3   42"   161.5   16	Н	30"		210.0									
42"	H	36"		210.0	1				}			HEIGHT	
48"     210.0     48"     178.6     54"     84"     140.4     37"     210.0     210.0       60"     166.7     60"     166.7     60"     160.0     63"     133.3     53-1/8"     210.0       66"     178.6     66"     165.7     66"     145.1     66"     128.3     26-1/2"     37"     210.0       69"     166.7     69"     155.5     72"     125.0     53-1/8"     210.0       75"     147.1     75"     129.9     78"     118.3     26-1/2"     37"     210.0       78"     138.9     78"     121.2     81"     122.6     37"     50-5/8"     210.0       84"     150.0     84"     128.3     30"     177.8     19-1/8"     50-5/8"     210.0       87"     142.9     90"     114.8     96"     125.0     153.8     26-1/2"     50-5/8"     210.0       84"     150.0     84"     128.3     30"     177.8     19-1/8"     210.0       87"     142.9     90"     114.8     96"     125.0     53-1/8"     63"     63"       48"     96"     125.0     153.8     26-1/2"     37"     53-1/8"     210.0       66"		42"		210.0	1				ł				
54"   60°   60°   66°	Ш	48"		210.0	1				.,,			26"	
60° 48° 153.8 66° 48° 153.8 66° 66° 155.3 66° 128.3 26-1/2° 37° 38-3/8° 210.0 66° 72° 156.3 72° 72° 156.3 72° 72° 147.1 75° 129.9 81° 150.0 84° 150.0 84° 128.3 84° 142.9 90° 136.4 90° 114.8 96° 125.0 53-1/8° 210.		54"		200.0	54"				04		l I		
63" 48" 153.8 66" 66" 178.6 66" 66" 165.3 66" 128.3 26-1/2" 37" 210.0 21		60"		166.7	60"								
66°     40     178.6     66°     66°     165.3     69°     126.5     37°     38-3/8°     210.0       72°     156.3     72°     139.9     75°     123.9     19-1/8°     210.0       75°     147.1     75°     129.9     78°     118.3     19-1/8°     26-1/2°     37°     210.0       81°     157.9     81°     121.2     81°     122.6     37°     50-5/8°     210.0       87°     142.9     87°     121.2     30°     177.8     153.8     26-1/2°     37°     210.0       90°     114.8     90°     114.8     96°     125.0     37°     53-1/8°     210.0       177.8     153.8     96°     153.8     26-1/2°     63°     210.0       174.9     53-1/8°     174.9     37°     210.0     37°     210.0       187.0     115.9     96°     115.9     19-1/8°     26-1/2°     74-1/4°     210.0       174.5     53-1/8°     106.3     37°     174.5     53-1/8°     174.5       50°     101.8     101.8     101.8     101.8		63°	497	153.8	63°						B		
69"     166.7       72"     156.3       75"     147.1       78"     138.9       81"     157.9       84"     150.0       87"     142.9       90"     114.8       80"     118.3       80"     121.2       81"     136.4       84"     128.3       87"     121.2       90"     114.8		66"	40	178.6	66"	66"		1 1			· ·	38-3/8°	
72"   156.3   72"   139.9   75"   123.9   12		69"		166.7	69"				-				
75°         147.1         75°         129.9         78°         118.3         26-1/2°         50-5/8°         210.0         210.0         210.0         37°         210.0         210.0         204.5         210.0         204	-	72"		156.3	72°	·			ŀ			<u> </u>	
78"     138.9     78"     121.2     81"     122.6     37"     50-5/8"     210.0       84"     150.0     84"     128.3     30"     177.8     153.8     19-1/8"     210.0       87"     142.9     90"     114.8     42"     137.1     153.8     26-1/2"     37"     53-1/8"     210.0       48"     96"     125.0     53-1/8"     53-1/8"     148.8       54"     115.9     109.1     26-1/2"     74-1/4"     210.0       66"     103.9     101.8	-	75"		147.1	75"		129.9	1 1			·		
81" 84" 150.0     81" 84" 128.3     136.4     24" 210.0     53-1/8" 210.0       87" 90" 136.4     87" 90" 114.8     121.2     36" 153.8     153.8     26-1/2" 37" 53-1/8" 174.9       48" 96" 125.0     137.1     37" 53-1/8" 148.8       54" 115.9     106.3     106.3       66" 66" 66" 66" 103.9     101.8	- 11	78"		138.9	78°		121.2	1 1			1	50-5/8"	
84"     150.0     84"     128.3     30"     177.8     19-1/8"     210.0       90"     136.4     90"     114.8     36"     153.8     153.8     16-1/2"     37"     63"     210.0       48"     96"     125.0     53-1/8"     148.8       54"     106.3     106.3     37"     210.0       66"     103.9     101.8		81"		157.9	81"			24" 30"					
87" 90"         142.9 90"         87" 90"         121.2 36" 42"         36" 42" 153.8 137.1 37"         26-1/2" 37" 53-1/8"         210.0 2		84"		150.0	84"		128.3						
90"   136.4   90"   114.8   42"   48"   96"   125.0   53-1/8"   53-1/8"   510.0   53-1/8"   510.0   53-1/8"   510.0   53-1/8"		87"		142.9	87"		121.2						
48"     96"     125.0     53-1/8"     148.8       54"     115.9     19-1/8"     210.0       60"     109.1     26-1/2"     74-1/4"     210.0       66"     103.9     53-1/8"     174.5       53"     106.3     53-1/8"     142.1		90"		136.4	90"			i .				63"	
54"     115.9     19-1/8"     210.0       60"     109.1     26-1/2"     74-1/4"     210.0       63"     106.3     37"     174.5       66"     103.9     53-1/8"     142.1								1 1	96"				
60" 109.1 26-1/2" 74-1/4" 210.0 210.0 37" 53-1/8" 74-1/4" 174.5 69" 101.8								1 1			1 — — —	<del> </del>	
63" 106.3 37" 74-1/4" 210.0 174.5 174.5 174.1 174.5 174.1 174.5 174.1 17								1			1		
66" 103.9 53-1/8" 142.1								1	j			74~1/4"	
69" 101.8								1	Ī				
_   <del> '</del>								69"	İ		/ -		172,1
	L	. <u> </u>						72"		100.0			





WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES 1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR MASONRY 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

DIRECTLY INTO CONC. OR MASONRY 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

# #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)

INTO METAL STRUCTURES

STEEL: 12 GA. MIN. (Fy = 36 KSI MIN.) ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

# #12 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8") (NO SHIM SPACE)

#### TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN. INTO WOOD STRUCTURE = 1" MIN. INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN. CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN. C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

> Engr: JAVAD AHMAD CIVIL FLA. PE # 70592 C.A.N. 3538

AUG 2 2014

PRODUCT REVISED as complying with the Florida Building Code

Expiration Date

By Manuel Star

Miami Dade Product Control

AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 1235 S.W. 87 AVE MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX. (305) 262-6978

WINDOW

CGI WINDOWS & DOORS 10100 N.W. 25TH STREET MIAMI, FL. 33172 TEL. (305) 593-6590 FAX. (305) 59 SERIES-238 DESIGNER

drawing no. W01 - 83

sheet 7 of 8

- 11	OF ALUM	ANCE VALU	K	PERFORMANCE VALUES OF ALUMINUM BUCK			PERFORMANCE VALUES OF ALUMINUM BUCK			PERFORMANCE VALUES OF ALUMINUM BUCK				ALUMINUM BUCK FRAMING DETAILS				
INSTALLATION ANCHOR			ANCHORS			TION ANCHORS  ANCHORS ANCHORS		INSTALLAT		TION ANCHORS				TION ANCHORS		REFER TO SHEETS 3 THRU 6 FOR WINDOW CAPACITIES USE LOWER APPLICABLE VALUES.		
WINDOW DIMS.		AT 17" O.C. EXT. (+)	AT 10" O.C. EXT. (+)	WINDO	DIMS.	AT 17" O.C. A	C. AT 10" O.C.	WINDOY	DIMS.	ANCHORS AT 17" O.C.		WINDOW DIMS.		ANCHORS AT 17" O.C.	ANCHORS . AT 10" O.C.			
WIDTH	HEIGHT	INT. (-)	INT. (-)	WIDTH	HEIGHT		EXT. (+) INT. (–)	WIOTH	HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	WIDTH	HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. ()	2.500		
24" 30"		207.8 189.9	210.0	24" 30"		158.3	210.0	24"		138.5	193.9	24°		121.2	190.4	.065592		
36"		184.7	210.0	36"	•	123.1	204.6 184.7	30" 36"		116.6	163.3	30 <b>"</b> 36"		100.1	157.3			
42" 48"		138.5 147.7	184.7	42"		115.1	172.7	42"		93.1	130.4	42"	108"	86.2 76.4	135.4	562 1.125		
54"		123.1	184.7	48" 54"		110.8	166.2 164.1	48" 54"	•	86.6	121.2	48"		69.3	108.8	1.436 1		
60"		105.5	158.3	60"		89.5	134.3	60"		79.1	114.9	54 <b>"</b> 60"		63.8 59.7	100.3 93.8	.125-		
63" 66"	36"	98.5	172.4	63"	54°	82.1	143.6	63°	72"	78.2	109.4	63"		57.9	91.0	ALUMINUM BUCK OPTIONAL COVER		
69"		108.6	152.1	66" 69"	l	94.7 87.9	132.6	66" 69"	-~	77.5	108.5	24"		123.1	184.7	6063-T6 6063-T6		
72"		102.6	143.6	72"		82.1	114.9	72"		76.9	107.9	30" 36"		101.3 86.9	152.0			
75" 78"		97.2	155.5	75" 78"		76.9	123,1	75°		71.0	107.7	42"	120"	76.7	115.1	#14 SMS		
81"		105.5	140.7	81"		72.4 82.1	115.9	78" 81"		73,9	105.5 98.5	48" 54"		69.3	103.9	AT 6" FROM ENDS		
84° 87"		100.7	151.1	84"		77.8	116.6	84"		69.3	103.9	24*		63.5	95.3 180.1	AT HEAD/SILL/JAMB		
90"		96.3 92.3	138.5	87" 90"		73.9 70.3	110.8 105.5	87"		65.2	97.8	30"		102.3	147.7	¥   <sub>ω</sub>		
24"		166.2	210.0	24"		138.5	207.8	90"	<del></del> -	61.6 125.9	92.3 201.5	36* 42*	132 <b>"</b>	87.5 77.0	126.4	SHIMS SHIMS		
30° 36°		147.7	197.0 184,7	30" 36"		118.2	177.3	30"		105.5	168.8	48"		69.3	100.0	HIM WAX		
42°		135.7	180.9	36 42*		105.5 97.4	158.3 146.1	36" 42"		92.3	147.7	24"	_	113.3	188.9	14 N		
48"		135.7	175.9	48"		<del> </del>	138.5	48"		76.9	133.3	30 <b>"</b> 36"	144°	92.8 79.1	154.6			
54" 60"		97,4	172.7 146.1	54" 60"			134.3	54°		72.4	115.9	42*	,	69.5	115.8			
63"	42"	90.4	158.3	63"		<del></del> -	133.0	60" 63"	78"	69.3 68.1	110.8	48" 24°		62.3	103.9	2 1/2" MIN. 4		
66" 69"	. 42	105.5	147.7	66"	60"		129.3	66"		67.2	107.4	30 <b>"</b>	156"	94.3	184.7 150.9	EDGE DIST: 1/4" DIA: ULTRACON		
72"		98.9 93.1	138.5	69 <b>"</b> 72"			119.3	69" 72"		66.4	106.3	36"		80.3	128.5	AT 6" FROM ENDS		
75"		87.9	140.7	75"		<del></del> -	118.2	75"		66.0 65.7	105.5 105.1	42"	_	70.3	112.6	SEE CHART FOR SPACING  INSTALLATION TYPE '5' AT HEAD/SILL/JAMB		
78" 81"		83.3 95.0	$-\frac{133.3}{126.6}$	78"		<del></del>	110.8	78°		65.6	104.9			NCE VALUI		1		
84"		90.4	135.7	81" 84"			104.3	81" 84"		65.6 65.6	97.4	11	OF ALUM (STALLAT	INUM BUCI ION ANCHO	K RS			
87" 90"		86.3	129.5	87"	i	70.0	105.0	87"		63.9	95.9	WINDOW		ANCHORS	ANCHORS AT 10" O.C.			
24"		82.6 184.7	123.9 210.0	90" 24"	<del></del>	66.5 153.9	99.7 210.0	24" 30"		138.5	207.8			EXT. (+)	EXT. (+)	#14 SMS AT 6" FROM ENDS		
30"		161.2	201.5	30"			182.5	36"		115.6 100.7	173.4 151.1	WIDTH 19-1/8"	HEIGHT	INT, (-) 210.0	INT. (-)	.		
36° 42°	ļ	147.7 135.7	184.7 175.9	36"			161.6	42°		90.4	135.7	26-1/2"	26"	210.0	210.0	AT HEAD/SILL/JAMB		
48"		138.5	173.1	42" 48"			138.5	48" 54"		83.1 77.8	124.7	37"	ZĢ	191.8	210.0			
54"		110.8	166.2	54"			132.6	60"	84"	73.9	116.6	53-1/8" 19-1/8"		152.9 210.0	210.0 210.0	SHIMS SHIMS		
60° 63°		92.3 85.2	138.5	60" 63"		88.6 80.4	129.3	63*		72.4	108.5	26-1/2"	38-3/8"	179.7	210.0			
66"	48*	98.9	138.5	66"	66"		128.5	66" 69"		71.1	106.7	37" 53-1/8"	,	162.7	210.0			
69" 72"		92.3	129.3	69"		83.9	117.5	72"		69.3	103.9	19-1/8"		122.5 203.2	183.8 210.0			
75"	ŀ	86.6 81.5	121.2	72" 75"			108.5 115.1	75" 78"		68.6	102.9	26-1/2"	50-5/8"	161.1	201.4	1" MIN. 1/4" DIA. ULTRACON		
78"		76.9	123.1	78°			107.4	78" 81"		65.6 67.9	102.3 97.3	37" 53-1/8"	-	134.2 113.3	167.8 155.6	1-1/4" MIN. CONC. EMBED AT 6" FROM ENDS		
81" 84"		87.5 83.1	116.6	81"			100.7	24"		118.7	197.9	19-1/8"	<del></del>	156.1	210.0	SEE CHART FOR SPACING AT HEAD/SILL/JAMB		
87"		79.1	124.7	84" 87"			106.7	30" 36"		98.5 85.2	164.1	26-1/2"	63"	121.0	210.0	l · · · · · · · · · · · · · · · · · · ·		
90"		75.5	113.3	90″_		63.6	95.4	42"		76.0	142.1	37" 53~1/8"		96.9 82.4	169.6	PRODUCT REVISED AND AND AND AND AND AND AND AND AND AN		
							— <b>—</b>	48"	96"	69.3	115.4	19-1/8"		161.2	210.0	Building Codey Wood Buck or Wood STRUCTURES  Acceptance No 14-093.07  Expiration Details 18-0903.07		
								54" 60"		64.2	107.1 100.7	26-1/2" 37"	74-1/4"	123.4	197.4	Expiration Date OF 70, 2018		
								63"	ŀ	58.9	98.2	53-1/8"		96.7 78.7	15 <b>4.7</b> 126.0	By Manuel Strong Minimi Dade Product Control		
								66" 69"		57.6	95.9				<u> </u>	24720N4		
								69" 56.4 94.0 TYPICAL INSTALLATION DETAIL 72" 55.4 92.3 ON ALL FOUR SIDES/USING ALUMINUM BUCK SYSTEM						PRICAL INSTALLATION DETAIL  R SIDES VISING ALLMINIUM BUCK SYSTEM				
									<u></u>	TLL FUUL	7 SIDES ACOMINON BOCK SASTEM							

FAX. (305) 262-6978 COMP-ANL\V

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 331.74
TEL (305) 264-8100 FAX. (305) 262-6978

SERIES-238 DESIGNER FIXED WINDOW

CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX. (305) 593-6592

| date: 12-27-01 | scale: 1/2" = 1" | dr. by: HAMID | chk. by:

drawing no. W01 - 83sheet 8 of 8